

REFERENCE SHEET

Special Pressure Vessels



MORE SUSTAINABILITY



Custom-made special pressure vessels

For decades, we've supported customers globally with specialized pressure vessels for various chemical and industrial processes, as well as steam storage systems. Whether it's for new installations or during revamp planning, licensors and operators face similar concerns: can the supplier ensure the necessary load cycles and steam separation qualities, and how can intercrystalline, crevice and pitting corrosion and thermal expansion be mitigated. We apply experience spanning more than 40 new plants and revamps since 1990 to offer solutions that enhance reliability.

With our bespoke, customer-focused design and optimal layout strategies, we prevent unplanned shutdowns for our clients. We address customers needs for new systems and conduct root cause analysis and feasibility assessments for improvements to existing systems. Our core competencies include the detailed design of upgraded pressure vessels and collaboration with specialized manufacturing partners.

Our expertise in handling challenging construction details, accommodating high load cycles, adhering to demanding design code regulations and meeting sustainability requirements is demonstrated through our manufacture of special pressure vessels in various designs and code combinations. We meticulously review customer specifications and discuss any concerns and propose better technical solutions before finalizing contracts.

Scope of Supply

- Design beginning with heat engineering / root cause analysis (revamps)
- 3D and 2D planning, workshop drawings
- Manufacturing of vessels
- Delivery of auxiliaries such as valves and instruments
- Pre-acceptance and shop test with notified body, stamping
- Seaworthy packing and transport to jobsite or FOB North Sea port
- Final documentation with detailed assembly manual

Technical Data

Design-code	EN12952, EN13445, AD2000, ASME I, ASME VIII Div.1 & S/U stamps / PED
Design pressure	65 bar(g)
Design temperature	up to 380 °C
Pressure part materials	Fine-grain steel, austenitic, low-alloyed, CS
Weight single single vessels	up to 175 t

